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## Title word cross-reference

+ [GL08]. 2 [BPCC09, LP15]. 3 [JB15, SPS12, TZWZ15]. *QR* [ZCL16].

**-D** [SPS12].

**11th** [AC14]. **15th** [DH08]. **19th** [GC13].

**2.1** [JRHK15]. **2007** [AN09]. **2009** [Che11, WBAM10]. **2011** [Hüib12]. **2013** [CDM15]. **2014** [BAG15, DB15, GSCB15, RVHP16, SB15]. **256** [MAK<sup>+</sup>12].

**5** [AKA09]. **5.0** [LKJ<sup>+</sup>11].

**7.0** [LGW<sup>+</sup>14]. **7th** [VG14].

**A-Port** [PVA<sup>+</sup>09]. **Abstraction** [IBH<sup>+</sup>15]. **Abstractions** [IPC14].

**Academic** [MWL<sup>+</sup>15]. **Accelerated** [MCC10]. **Accelerating** [JLB<sup>+</sup>08, TZWZ15, VL11, ZG16]. **Acceleration** [CAPA<sup>+</sup>09, CBR<sup>+</sup>14, CZ09, KLC11, PFC15, WMG<sup>+</sup>10, XCG<sup>+</sup>09, ZBR12]. **Accelerator** [YEC<sup>+</sup>09, ZZJB13, YXC<sup>+</sup>11]. **Accelerators** [JRHK15, UNBR14]. **Accesses** [PFC15]. **Accumulator** [WS16]. **Accuracy** [LP15, UNBR14]. **Accurate** [JM14]. **Adaption** [BHI15]. **Adaptive** [CNE<sup>+</sup>15, INF<sup>+</sup>14, JCG<sup>+</sup>12, NNY12, OVI<sup>+</sup>12, PMC<sup>+</sup>14, ZCL15, Tak12, DGP<sup>+</sup>15]. **Adders** [HU10]. **Adding** [PSM<sup>+</sup>14]. **Addition** [CAPA<sup>+</sup>09, OBD13]. **Addition-Related** [OBD13]. **Adjustment** [NW11]. **adventure** [RD11]. **Aerial** [CZ09]. **AES** [DGP10, HF14]. **against** [LOM10]. **Algorithm** [CBR<sup>+</sup>14, EWL15, RLY<sup>+</sup>15, Ste10, TL11]. **Algorithm/Architecture** [EWL15]. **Algorithms** [CW09, LRA13, NSS<sup>+</sup>11]. **Alignment** [JLB<sup>+</sup>08, MCC10, OBD13]. **Altera** [SMOP15]. **Amenability** [HNG09]. **Analysis** [BPFD11, CFBS15, CKG<sup>+</sup>10, MMT09, PPR<sup>+</sup>10, RGGW10, SB08, GP13, Tak12]. **Analytical** [KSCC10, LAL13, DW13, HGLS11]. **Analyzing** [GSJC13]. **Application** [ABCC09, BBND10, CM14, DDB<sup>+</sup>10, GdLG<sup>+</sup>14, JSC14, KGS15, LJS11, MWK<sup>+</sup>12, PMKM11, RUC11, VTN09, WMG<sup>+</sup>10, SSF<sup>+</sup>13]. **Application-Specific** [PMKM11, LJS11]. **Applications** [CFBS15, CKG<sup>+</sup>10, GKM<sup>+</sup>12, KBM09, KCC<sup>+</sup>14, LZF<sup>+</sup>10, NJLW14, PSM<sup>+</sup>14, PVB13, WHQ<sup>+</sup>08, KSG11]. **Applying** [NSS<sup>+</sup>11]. **Approach** [CM14, KM10, MWK<sup>+</sup>12, NBS13, SBC15]. **Approaches** [MVGB15, SAD10]. **ARC** [BAG15, DB15, GSCB15, SB15, WBAM10]. **ARC'08** [CWBD09]. **Architecture** [ATJZ16, BCE<sup>+</sup>10, CXG<sup>+</sup>12, DS15, IZO<sup>+</sup>10, IBH<sup>+</sup>15, KSCC10, KAL14, LGW<sup>+</sup>14, OWMZ11, PFC15, SBC10, SB15, VL11, WS16, XJD<sup>+</sup>16, ZCL16, DW13, LKJ<sup>+</sup>11, Oli12]. **Architectures** [BBND10, CBC<sup>+</sup>12, DSB09, GC13, JTLC09, LAL13, HLL08]. **Area** [DD15, Tho15]. **Area-Efficient** [DD15, Tho15]. **ARISE** [VTN09]. **Arithmetic** [SCC10]. **Array** [SLH<sup>+</sup>10, ZCL16]. **Arrays** [SCC10, ZH12]. **Artificial** [KAL14]. **ASIP** [EWL15]. **Assignment** [SB08]. **Associative** [DD15]. **Assurance** [KMK<sup>+</sup>10]. **Asymmetric** [SDG12]. **Atmospheric** [GFL<sup>+</sup>15]. **Attack** [SGM09]. **Automata** [MHS09]. **Automated** [SCC10]. **Automatically** [LP15]. **Automating** [NCJ<sup>+</sup>15]. **Automation** [SV09]. **Autonomous** [DVK15]. **Avionics** [LZF<sup>+</sup>10]. **avoidance** [RD11]. **Aware** [BAG15, BKT14, HNS<sup>+</sup>10, LCS14, NJLW14, SB08, EA11, KSG11]. **Awareness** [AHL<sup>+</sup>14, Bec14, DGP<sup>+</sup>15].

**Bandwidth** [BBND10, SLH<sup>+</sup>10, BC11]. **Bandwidth-Reduction** [SLH<sup>+</sup>10]. **Based** [AL16, BAG15, CBFM14, CZ09, DGP<sup>+</sup>15, DL09, EWL15, GDHG11, HLN<sup>+</sup>10, JCG<sup>+</sup>12, JTLC09, Kap16, KBT09, KD10, KGS<sup>+</sup>12, LT09, LL12, MVGB15, NNY12, OVI<sup>+</sup>12, PPR<sup>+</sup>10, RC10, SLH<sup>+</sup>10, SB15, ZCL16, ZBC<sup>+</sup>09, EA11, HLL08, LZF<sup>+</sup>10, MBJJ11, Ste10, YXC<sup>+</sup>11, ZBR12, KP14, UNBR14, ZZJB13]. **Behavior** [PVA<sup>+</sup>09]. **Benchmarks** [MWL<sup>+</sup>15]. **Benefits** [PSM<sup>+</sup>14].

**between** [LW08, MWL<sup>+</sup>15]. **Binary** [PFC15]. **Biomedical** [KCC<sup>+</sup>14]. **Bits** [DVK15]. **Bitstream** [BPFD11, SMOP15]. **BLASTP** [JLB<sup>+</sup>08, MH15]. **Block** [BDGH15, CBFM14]. **Block-Based** [CBFM14]. **Blocks** [FK08, PMKM11]. **Boltzmann** [KAL14]. **bottleneck** [KSG11]. **Bound** [MHS09]. **BRAMs** [DGP10]. **Broadcast** [PSM<sup>+</sup>14]. **Buses** [HBA<sup>+</sup>15].

**Cache** [SDG12]. **CAD** [LKJ<sup>+</sup>11, LGW<sup>+</sup>14, MWL<sup>+</sup>15]. **Capabilities** [GFBF12]. **Capability** [LZF<sup>+</sup>10]. **care** [MBJ11]. **Carlo** [TB10]. **Carry** [PABI09]. **Cartography** [SGM09]. **case** [NSS<sup>+</sup>11]. **CDO** [KLC11]. **Cell** [IZO<sup>+</sup>10, PABI09]. **Cellular** [MHS09]. **centric** [VG14]. **CGRA** [VL11]. **CGRAs** [CM14]. **Chain** [PABI09]. **Channel** [SG15]. **Characterization** [WMG<sup>+</sup>10]. **Check** [DL09]. **Checking** [PD15]. **Chip** [AB14, GdLG<sup>+</sup>14, GS10, HBA<sup>+</sup>15, JSC14, LL12, VG14, GNM<sup>+</sup>15]. **Choose** [RD11]. **Choose-your-own-adventure** [RD11]. **Cibola** [QRDC<sup>+</sup>15]. **Circuit** [DVH<sup>+</sup>15, LL12, WSC09, GL08]. **Circuit-Switched** [LL12]. **Circuits** [CBC<sup>+</sup>12, DL09, SC08, SV09, Ste10]. **clock** [LW08]. **Clocking** [DB15]. **cluster** [GNM<sup>+</sup>15]. **Clustering** [LRA13, EA11]. **Clusters** [FK08]. **Co** [EWL15]. **Co-Exploration** [EWL15]. **Coarse** [VL11, XJD<sup>+</sup>16]. **Coarse-Grained** [VL11, XJD<sup>+</sup>16]. **Code** [DVH<sup>+</sup>15, DC16, GRG08, ZG16]. **codesign** [SC11]. **Coding** [BAG15]. **CoEx** [EWL15]. **Coherency** [SDG12]. **Column** [VL11]. **Column-Oriented** [VL11]. **Combinatorial** [WSC09]. **Combined** [PP10]. **Commercial** [MWL<sup>+</sup>15, PANBI11]. **Communication** [HNS<sup>+</sup>10, TL11, VG14, HZW<sup>+</sup>13]. **Communication-Aware** [HNS<sup>+</sup>10]. **Communication-centric** [VG14]. **Communications** [BNW<sup>+</sup>10]. **Comparison** [BNW<sup>+</sup>10]. **Compatible** [LT09]. **Compilation** [BPFD11, MWK<sup>+</sup>12]. **Compile** [PPR<sup>+</sup>10]. **Compile-Time** [PPR<sup>+</sup>10]. **Compiler** [HLC<sup>+</sup>15, ZG16]. **Complexity** [FRS<sup>+</sup>15]. **Component** [SCC10]. **Components** [ATJZ16, DC16]. **Composing** [LLO<sup>+</sup>14]. **Comprehensive** [JCG<sup>+</sup>12, GP13]. **Compression** [GRG08, PP10, IYY<sup>+</sup>11]. **Compression/Decompression** [PP10]. **Compressor** [CAPA<sup>+</sup>09, PABI09, PANBI11]. **Compute** [MHS09]. **Computer** [LYS<sup>+</sup>08, NSS<sup>+</sup>11]. **Computers** [SPM<sup>+</sup>10, THK12]. **Computing** [Bec14, CH10, CKG<sup>+</sup>10, EAGEG09, HNS<sup>+</sup>10, JCG<sup>+</sup>12, MH15, RGGW10, dDELVP13, KSG11]. **Conference** [AC14]. **Configurable** [PABI09, WS16]. **Configuration** [DVK15, HBA<sup>+</sup>15, KD10]. **Configurations** [MHK<sup>+</sup>08]. **Conjugate** [RC10]. **Connected** [ATJZ16]. **Consideration** [TL11]. **Considering** [SC08]. **Constant** [HCOB13]. **Constraint** [MWK<sup>+</sup>12]. **Constraints** [BAMR10, INF<sup>+</sup>14, LP15]. **Context** [NW11]. **Control** [NW11, ZG16]. **Control-Intensive** [ZG16]. **Controller** [GdLG<sup>+</sup>14]. **Coordination** [ASGY12, PMC<sup>+</sup>14]. **Coprocessor** [GS10]. **CORDIC** [ZCL15, ZCL16]. **CORDIC-Based** [ZCL16]. **Core** [IZO<sup>+</sup>10, WMG<sup>+</sup>10, SGNB08]. **Correlation** [GSJC13]. **Cost** [TL11, PDH11, ZH12]. **Countermeasure** [MMMT09]. **Counters** [LT09]. **Counting** [FK08]. **Creative** [MCL<sup>+</sup>13]. **Cryo** [TZWZ15]. **Cryo-Electron** [TZWZ15]. **Cryptographic**

[BDGH15, SGM09]. **Cryptography** [GFBF12, KBM09, SG15]. **Curve** [GPP08, KBM09, SG15]. **Curve25519** [SG15]. **Custom** [GRG08, LCS14]. **cuts** [KVK<sup>+</sup>11].

**D** [BPCC09, JB15, LP15, SPS12, TZWZ15]. **Data** [GKM<sup>+</sup>12, IABV15, PVB13, WAT15, CA11]. **Data-Flow** [GKM<sup>+</sup>12]. **Data-Level** [PVB13, CA11]. **Databases** [VL11]. **Dataflow** [ZG16]. **Datapath** [SBC15, WHQ<sup>+</sup>08]. **Datapath-Oriented** [WHQ<sup>+</sup>08]. **DBSCAN** [SB15]. **DCT** [CA11]. **Debug** [WHQ<sup>+</sup>08]. **Debugging** [IPC14]. **decoders** [CA11]. **Decomposition** [ZCL16]. **Decompression** [KBT09]. **defect** [RD11]. **Defragmentation** [FKS<sup>+</sup>12]. **Delay** [LOM10, MHK<sup>+</sup>08, SC08]. **Delays** [GNM<sup>+</sup>15, WSC09]. **Demands** [RUC11]. **Dense** [RC10]. **DEpendability** [KGS<sup>+</sup>12]. **Dependable** [Ste10]. **Design** [BKT14, DL09, EWL15, IPC14, JSC14, JB15, KMK<sup>+</sup>10, MKP09, NBS13, SJT09, SBC15, Tak12, UNBR14, HLL08, HH13, MAK<sup>+</sup>12]. **design-space** [HLL08]. **Designing** [AHL<sup>+</sup>14, FK08]. **Designs** [BPCC09, DB15]. **Desktop** [LYS<sup>+</sup>08]. **Detection** [ATJZ16, PD15, KSG11]. **Development** [VTN09, DW13]. **Device** [CXG<sup>+</sup>12]. **Devices** [FKS<sup>+</sup>12, WMG<sup>+</sup>10]. **Dictionary** [GRG08]. **Difference** [NJLW14, SLH<sup>+</sup>10]. **Differential** [MMMT09]. **Digital** [BNW<sup>+</sup>10, LP15, MCN12, SSC16]. **Digital-Signal** [SSC16]. **direct** [ZBR12]. **Discovery** [MCL<sup>+</sup>13]. **Discrete** [GdLlG<sup>+</sup>14, GPP08]. **distributed** [HZW<sup>+</sup>13]. **Domain** [DDH<sup>+</sup>11, NSS<sup>+</sup>11]. **Domain-Specific** [DDH<sup>+</sup>11]. **don't** [MBJJ11]. **don't-care-based** [MBJJ11]. **DORGA** [NW11]. **Double** [LGD<sup>+</sup>14]. **Double-Precision** [LGD<sup>+</sup>14]. **DPA** [LOM10]. **Driven** [DSK15, LRA13, MWL<sup>+</sup>15, Ste10, EA11]. **driver** [LKJ<sup>+</sup>11]. **DSP** [CBFM14]. **DSPs** [DGP10]. **Dual** [HF14]. **Dual-Rail** [HF14]. **Dynamic** [BHI15, CW09, DVH<sup>+</sup>15, FKS<sup>+</sup>12, KP14, LP15, VMV15, NSS<sup>+</sup>11]. **Dynamically** [BBND10, DGP<sup>+</sup>15, HHSC10, MSSM10, NNY12, TL11, HLL08, HH13, IYY<sup>+</sup>11]. **Dynamics** [CH10]. **ECC** [DL09, GS10]. **Edition** [DH08]. **editor** [AN09]. **Editorial** [CDM15, DH08, GSCB15, WBAM10]. **Editors** [SJT09]. **Effect** [HLC<sup>+</sup>15]. **Efficient** [DD15, FK08, HU10, KSCC10, RLY<sup>+</sup>15, SLH<sup>+</sup>10, Tho15, CA11]. **Electromagnetic** [SGM09]. **Electron** [TZWZ15]. **Element** [MVGB15]. **Elementary** [LGD<sup>+</sup>14]. **Elimination** [NCJ<sup>+</sup>15]. **Elliptic** [GPP08, KBM09, SG15]. **Embedded** [BHI15, Kap16, KBT09, WHQ<sup>+</sup>08]. **EmulatoR** [KGS<sup>+</sup>12]. **Enabling** [MWL<sup>+</sup>15, OVI<sup>+</sup>12]. **encoded** [KVK<sup>+</sup>11]. **Encryption** [SMOP15]. **Energy** [DSK15, LP15, CA11]. **energy-efficient** [CA11]. **Energy-Reliability** [DSK15]. **Engines** [XCG<sup>+</sup>09, YXC<sup>+</sup>11]. **Enhanced** [JCCM09, ZCL15, ZCL16]. **Enhancement** [ABCC09]. **Enhancing** [GKM<sup>+</sup>12, MCN12]. **Entropy** [FK08]. **Environment** [MCL<sup>+</sup>13]. **Equations** [GFL<sup>+</sup>15]. **Error** [DVK15, PD15]. **ETA** [PEM<sup>+</sup>09]. **Evaluating** [LAL13]. **Evaluation** [LOM10, NJLW14, SMOP15].

**Evaluations** [KGS<sup>+</sup>12]. **Evolution** [CBC<sup>+</sup>12]. **Evolvable** [DS15]. **Execution** [DSK15]. **Experiment** [QRDC<sup>+</sup>15]. **Exploitation** [INF<sup>+</sup>14, MAK<sup>+</sup>12]. **Exploiting** [BDGH15, CA11, EAGEG09, LCS14, LZF<sup>+</sup>10, PVB13]. **Exploration** [EWL15, UNBR14, HLL08, LKJ<sup>+</sup>11]. **Exploring** [JTLC09, MWL<sup>+</sup>15, SPS12]. **Exponentiation** [dDELVP13]. **Expressions** [LT09]. **Extended** [DGP10]. **Extending** [GdLG<sup>+</sup>14]. **Extensible** [WS16]. **Extension** [GB11, GFBF12, MWK<sup>+</sup>12]. **Extraction** [GNM<sup>+</sup>15].

**Fabric** [BHB14, WHQ<sup>+</sup>08, SPS12]. **Factor** [LRA13]. **Factored** [KAL14]. **Fast** [BAG15, HU10, JM14, NW11, UNBR14, SSF<sup>+</sup>13]. **Fault** [BKT14, JCG<sup>+</sup>12, RLY<sup>+</sup>15]. **Fault-Tolerant** [BKT14, RLY<sup>+</sup>15]. **Field** [AC14, CAPA<sup>+</sup>09, SCC10]. **Field-Programmable** [AC14, SCC10]. **Filter** [BPCC09]. **Filtering** [LP15]. **Filters** [CNE<sup>+</sup>15]. **Financial** [TB10]. **Fingerprint** [XJD<sup>+</sup>16]. **Finite** [NJLW14, SLH<sup>+</sup>10, GDHG11]. **Finite-Difference** [NJLW14]. **FIR** [LP15]. **Fixed** [WL10, WMG<sup>+</sup>10]. **Fixed-** [WL10]. **flexibility** [LW08]. **Flexible** [DS15]. **Flight** [QRDC<sup>+</sup>15]. **Floating** [HU10, OBD13, RC10, WL10, WS16, dDELVP13]. **Floating-Point** [HU10, OBD13, WL10, WS16, dDELVP13]. **Floorplan** [KSCC10]. **Floorplanning** [MSSM10]. **Flow** [BNW<sup>+</sup>10, BHB14, GKM<sup>+</sup>12, RLY<sup>+</sup>15, SCC10, ZG16]. **Footprint** [CW09]. **FPGA** [ABCC09, BCE<sup>+</sup>10, BAG15, BPFD11, BDGH15, CA11, Che11, CW09, CZ09, DW13, DVK15, DL09, FRS<sup>+</sup>15, GP13, GFBF12, GSJC13, GRG08, HF14, HGLS11, HCOB13, IPC14, JCG<sup>+</sup>12, JRHK15, JCCM09, JM14, KLC11, KM10, Kap16, KBM09, KVK<sup>+</sup>11, KMK<sup>+</sup>10, KAL14, KGS15, KBT09, KD10, LCS14, LW08, LZF<sup>+</sup>10, LGD<sup>+</sup>14, LAL13, LT09, LKJ<sup>+</sup>11, MAK<sup>+</sup>12, MCN12, MHS09, NNY12, PDH11, PABI09, PMKM11, RC10, SLH<sup>+</sup>10, SB15, SC08, SV09, TL11, Tho15, TB10, UNBR14, WHQ<sup>+</sup>08, XCG<sup>+</sup>09, YXC<sup>+</sup>11, ZBR12, ZZJB13, ZBC<sup>+</sup>09]. **FPGA-Array** [SLH<sup>+</sup>10]. **FPGA-Aware** [LCS14]. **FPGA-Based** [UNBR14, ZZJB13, CZ09, JCG<sup>+</sup>12, Kap16, KBT09, LT09, NNY12, RC10, SB15, YXC<sup>+</sup>11, ZBR12]. **FPGAs** [AB14, AKA09, BKT14, BAMR10, BNW<sup>+</sup>10, BPCC09, BHB14, CAPA<sup>+</sup>09, CBFM14, CXG<sup>+</sup>12, CPN<sup>+</sup>09, CFBS15, DH08, DDH<sup>+</sup>11, DD15, DGP<sup>+</sup>15, DGP10, DB15, HU10, HBA<sup>+</sup>15, LLO<sup>+</sup>14, LOM10, LGW<sup>+</sup>14, MHK<sup>+</sup>08, MMMT09, MVGB15, MSSM10, PANBI11, PVA<sup>+</sup>09, PVB13, RVHP16, SGM09, SSF<sup>+</sup>13, SPS12, SB08, Ste10, SSC16, SMOP15, VMV15, WSC09, WAT15]. **FPL** [CDM15]. **FPT'12** [AC14]. **Framework** [ASGY12, CKG<sup>+</sup>10, JCG<sup>+</sup>12, JRHK15, RGGW10, VTN09, HLL08, SSF<sup>+</sup>13, SPS12]. **Frequent** [ZZJB13]. **FSM** [GDHG11]. **Full** [CPN<sup>+</sup>09]. **Full-System** [CPN<sup>+</sup>09]. **Fully** [KAL14]. **Function** [LGD<sup>+</sup>14]. **Functional** [RUC11]. **Functions** [NCJ<sup>+</sup>15, SAD10].

**Game** [MCL<sup>+</sup>13]. **Gap** [MWL<sup>+</sup>15]. **Gate** [SCC10]. **Gaussian** [SBC10, TL08, Tho15]. **General** [GFBF12]. **Generated** [HLC<sup>+</sup>15, LP15]. **Generating** [GNM<sup>+</sup>15]. **Generation**

[BS15, LGW<sup>+</sup>14, MWK<sup>+</sup>12, SCC10, TL08, GL08]. **Generator** [SBC10, SSC16, Tho15]. **Generators** [RVHP16]. **Global** [GFL<sup>+</sup>15, JSC14]. **GPP** [TB10]. **GPU** [TB10]. **GPUs** [BNW<sup>+</sup>10, CFBS15]. **Gradient** [RC10]. **Grain** [IZO<sup>+</sup>10]. **Grained** [VL11, XJD<sup>+</sup>16]. **Graph** [CM14, FRS<sup>+</sup>15, MVGB15, ZG16]. **Graph-Based** [MVGB15]. **graphics** [BG08]. **GRNG** [Tho15]. **GROK** [GNM<sup>+</sup>15]. **GROK-LAB** [GNM<sup>+</sup>15]. **Guest** [AN09, CDM15, DH08, GSCB15, WBAM10, SJT09].

**Hadamard** [Tho15]. **Hard** [AB14]. **Hardware** [AV13, BPFD11, BS15, CBC<sup>+</sup>12, CBR<sup>+</sup>14, CZ09, DS15, GPP08, HHSC10, HLC<sup>+</sup>15, HLN<sup>+</sup>10, IBH<sup>+</sup>15, KBT09, MOG<sup>+</sup>13, MCC10, PD15, PSM<sup>+</sup>14, SBC10, TL08, WL10, ZG16, BG08, HH13, SC11]. **Hardware-Accelerated** [MCC10]. **Hardware-Based** [HLN<sup>+</sup>10]. **Hardware/Software** [HHSC10, HH13, SC11]. **Hash** [IABV15]. **Healing** [BHI15]. **healthier** [ZH12]. **Heap** [BAG15]. **Heap-Based** [BAG15]. **heterogeneity** [LKJ<sup>+</sup>11]. **Heterogeneous** [ASGY12, AHL<sup>+</sup>14, BPCC09, CNE<sup>+</sup>15, GFL<sup>+</sup>15, KSCC10, KP14, OVI<sup>+</sup>12, TZWZ15, PMKM11, SPS12]. **Hiding** [MMMT09, THK12]. **High** [BS15, CH10, CKG<sup>+</sup>10, EAGEG09, HNS<sup>+</sup>10, HLC<sup>+</sup>15, IPC14, MH15, NBS13, RC10, SPM<sup>+</sup>10, SGM09, SSC16, TB10, WBC16, ZBC<sup>+</sup>09, MAK<sup>+</sup>12, PANBI11]. **High-Level** [CKG<sup>+</sup>10, HLC<sup>+</sup>15, IPC14, NBS13, WBC16]. **High-Performance** [CH10, EAGEG09, HNS<sup>+</sup>10, MH15, SPM<sup>+</sup>10, SSC16, TB10, PANBI11]. **High-Speed** [BS15, ZBC<sup>+</sup>09]. **high-throughput** [MAK<sup>+</sup>12]. **HMAC** [MAK<sup>+</sup>12]. **Homogeneous** [LAL13]. **Hybrid** [DS15]. **HyperTransport** [SGNB08].

**I/O** [MHS09]. **ICFPT** [AN09]. **iDEA** [CBFM14]. **Identification** [DVH<sup>+</sup>15]. **Idle** [NCJ<sup>+</sup>15]. **II** [SMOP15]. **III** [SMOP15]. **Image** [BAG15, CZ09]. **Images** [TZWZ15]. **Impact** [HBA<sup>+</sup>15]. **Implementation** [AV13, BAG15, GRG08, HF14, LGD<sup>+</sup>14, MKP09, OBD13, RC10, SV09, SAD10, CA11, SSF<sup>+</sup>13]. **Implementations** [BDGH15]. **Implemented** [PVB13]. **Implementing** [BKT14, BNW<sup>+</sup>10, SG15]. **Inprecise** [SBC15]. **Improve** [LZF<sup>+</sup>10, SDG12]. **Improved** [JCCM09]. **Improving** [YKBS10]. **incremental** [GL08]. **Independent** [PMC<sup>+</sup>14]. **Index** [BAG15]. **Index-Aware** [BAG15]. **Information** [GSJC13]. **Infrastructure** [HBA<sup>+</sup>15, HH13]. **Input** [CAPA<sup>+</sup>09, FK08]. **Insertion** [LOM10]. **Instruction** [GB11]. **Instruction-Set** [GB11]. **Instructions** [LCS14]. **Integration** [GS10, JRHK15, LRA13]. **Intensive** [ZG16]. **Interconnect** [FK08, SPS12]. **Interface** [JB15, RUC11]. **Internal** [HBA<sup>+</sup>15]. **International** [AC14, DH08, VG14]. **Intra** [GNM<sup>+</sup>15, HF14]. **Intra-cluster** [GNM<sup>+</sup>15]. **Intra-Masking** [HF14]. **Intrinsic** [MHK<sup>+</sup>08]. **Introduction** [AC14, Bec14, BL08, Che11, CWBD09, DC16, GC13, Hüb12, SJT09, VG14, AN09]. **Invariant** [PD15]. **IP** [IZO<sup>+</sup>10]. **IR** [ZG16]. **Isolated** [MMMT09]. **Issue** [AC14, CWBD09, DC16, Hüb12, VG14]. **Itemset** [ZZJB13]. **iterative**

[BC11].

**JIT** [BPF11]. **JITPR** [SSF<sup>+</sup>13].

**Kernels** [JB15]. **Key** [GFBF12]. **KLT** [DB15]. **Knowledge** [GNM<sup>+</sup>15].

**Lab** [MCN12, GNM<sup>+</sup>15]. **LambdaRank** [YXC<sup>+</sup>11]. **Language** [CKG<sup>+</sup>10]. **Large** [KM10, MWL<sup>+</sup>15]. **Latencies** [BAMR13]. **Latency** [THK12]. **Layer** [IBH<sup>+</sup>15]. **LDPC** [CA11]. **Learning** [MCN12]. **Length** [LRA13, EA11]. **Level** [ASGY12, CKG<sup>+</sup>10, DS15, DL09, GSJC13, HLC<sup>+</sup>15, IPC14, NBS13, PVB13, WBC16, CA11]. **Leveraging** [SC11]. **libraries** [KVK<sup>+</sup>11]. **Library** [WL10]. **Lightweight** [RD11]. **Line** [IABV15]. **Line-Rate** [IABV15]. **linear** [ZBR12]. **Lists** [WAT15]. **Lithographic** [CZ09]. **Load** [THK12, RD11]. **load-time** [RD11]. **Local** [JSC14]. **Logarithm** [GPP08]. **Logarithmic** [BPF11]. **Logarithmic-Time** [BPF11]. **Logic** [DGP10, IZO<sup>+</sup>10, MHS09, PABI09, WBC16, MBJJ11, PMKM11]. **Long** [UHU09]. **Loop** [DSB09]. **Loops** [PMC<sup>+</sup>14, PFC15]. **Low** [DS15, FRS<sup>+</sup>15, HBA<sup>+</sup>15, KBM09, KCC<sup>+</sup>14, KGS15, ZBC<sup>+</sup>09, ZH12]. **Low-Complexity** [FRS<sup>+</sup>15]. **Low-cost** [ZH12]. **Low-Level** [DS15]. **Low-Overhead** [KGS15]. **Low-Power** [KBM09, KCC<sup>+</sup>14, ZBC<sup>+</sup>09]. **Low-Speed** [HBA<sup>+</sup>15]. **LUT** [FK08, HF14, JCCM09].

**Machine** [KAL14, GDHG11]. **Management** [BBND10, KP14, LP15, HZW<sup>+</sup>13]. **Manager** [OWMZ11]. **Mapping** [BBND10, CNE<sup>+</sup>15, CM14, CBR<sup>+</sup>14, JSC14, JCCM09, MCL<sup>+</sup>13, KVK<sup>+</sup>11]. **Mapping-Scheduling** [CBR<sup>+</sup>14]. **Masking** [HF14]. **Massively** [JB15]. **Matching** [XJD<sup>+</sup>16]. **Matrices** [RC10]. **Matrix** [DDB<sup>+</sup>10, BC11]. **Matrix-Vector** [DDB<sup>+</sup>10, BC11]. **Maximum** [RLY<sup>+</sup>15]. **Measurement** [WSC09]. **Mechanism** [SLH<sup>+</sup>10, SMOP15]. **Memories** [AL16, BDGH15, DD15, LLO<sup>+</sup>14]. **Memory** [BAMR10, BAMR13, CW09, HF14, JB15, PFC15, THK12, BC11, LJS11]. **Mercury** [JLB<sup>+</sup>08]. **Merged** [GRG08]. **Merging** [JCCM09, KD10, LCS14]. **Method** [NJLW14]. **Methodology** [DGP<sup>+</sup>15]. **Methods** [KSCC10, SLH<sup>+</sup>10, BC11]. **Microcoded** [GRG08]. **Microkernel** [IBH<sup>+</sup>15]. **Microscopy** [TZWZ15]. **Middleware** [KGS15]. **Mining** [ZZJB13]. **Minor** [CM14]. **Mixed** [AB14]. **mobile** [NSS<sup>+</sup>11]. **MOdel** [KGS<sup>+</sup>12, AHL<sup>+</sup>14, LAL13, MOG<sup>+</sup>13, MVGB15, SPM<sup>+</sup>10, AGY<sup>+</sup>11, DW13, HGLS11, PDH11]. **MOdel-Based** [KGS<sup>+</sup>12]. **Modeling** [GdLG<sup>+</sup>14, PVA<sup>+</sup>09, SC08]. **Models** [JTLCO9]. **MODES** [KGS<sup>+</sup>12]. **Modifications** [SDG12]. **Modular** [AL16, IPC14, NBS13, OWMZ11]. **Module** [KD10, SGM09]. **Module-Based** [KD10]. **Modulo** [BAMR10]. **Molecular** [CH10]. **Monitoring** [BCE<sup>+</sup>10]. **Monte** [TB10]. **MPI** [SPM<sup>+</sup>10]. **MPSoC** [BHI15, PSM<sup>+</sup>14]. **MPSoCs** [DSK15, KP14, OVI<sup>+</sup>12]. **MRAM** [ZBC<sup>+</sup>09]. **Multi** [CAPA<sup>+</sup>09, HGLS11, JSC14, LLO<sup>+</sup>14, WMG<sup>+</sup>10].

**Multi-Application** [JSC14]. **Multi-Core** [WMG<sup>+</sup>10]. **Multi-FPGA** [HGLS11]. **Multi-Input** [CAPA<sup>+</sup>09]. **Multi-Ported** [LLO<sup>+</sup>14]. **Multicontext** [VL11]. **Multicore** [SDG12]. **Multicores** [AHL<sup>+</sup>14, CFBS15]. **Multidimensional** [SB15]. **MultiFactor** [KLC11]. **Multigigabit** [PP10]. **multilevel** [AGY<sup>+</sup>11, HGLS11]. **multilevel-PGAS** [AGY<sup>+</sup>11]. **Multimedia** [DSK15]. **Multiple** [MHK<sup>+</sup>08]. **Multiplication** [DDB<sup>+</sup>10, BC11]. **Multiplier** [HCOB13]. **Multipliers** [HU10]. **Multiported** [AL16]. **Multiprocessor** [CPN<sup>+</sup>09]. **Multiprocessors** [PPR<sup>+</sup>10]. **Multivariate** [SBC10, TL08]. **mutate** [GL08].

**NCBI** [MH15]. **Near** [DD15]. **Near-Associative** [DD15]. **Net** [EA11, LRA13]. **Net-Length** [LRA13]. **Net-length-based** [EA11]. **Network** [JSC14, KAL14]. **Network-on-Chip** [JSC14]. **Networks** [AB14, KD10, LL12, MVGB15, PVA<sup>+</sup>09, HZW<sup>+</sup>13, LW08]. **Networks-on-Chip** [AB14]. **Neural** [KAL14]. **Next** [LGW<sup>+</sup>14]. **Nine** [NW11]. **Nine-Context** [NW11]. **NoC** [KP14]. **NoC-Based** [KP14]. **Novel** [EWL15, VL11, SPS12]. **Number** [RVHP16, SBC10, TL08, Tho15]. **Numerical** [SLH<sup>+</sup>10].

**O** [MHS09]. **OFDM** [SAD10]. **off** [LW08]. **Offs** [SAD10]. **On-Chip** [LL12, GNM<sup>+</sup>15]. **onto** [SSF<sup>+</sup>13]. **open** [SGNB08]. **open-source** [SGNB08]. **Operating** [AHL<sup>+</sup>14, IBH<sup>+</sup>15]. **Operation** [NBS13]. **Operations** [PSM<sup>+</sup>14]. **Operators** [OBD13]. **Opportunities** [DVH<sup>+</sup>15]. **Optical** [BNW<sup>+</sup>10, NW11]. **Optimal** [DSB09]. **Optimization** [BPCC09, CXG<sup>+</sup>12, DSK15, DDH<sup>+</sup>11, KSCC10, LP15, LT09, MBJJ11]. **Optimizations** [HLC<sup>+</sup>15]. **Optimized** [GS10, SBC10]. **Optimizing** [BAMR13, BC11, Kap16]. **Option** [JTLC09]. **Oriented** [TL11, VL11, WHQ<sup>+</sup>08]. **Oscillator** [YKBS10, ZH12]. **Over-Clocking** [DB15]. **Overclocking** [SBC15]. **Overhead** [KGS15]. **own** [RD11].

**Packing** [AKA09]. **Parallel** [AV13, BAG15, JB15, SB15, SSC16, TZWZ15]. **Parallelism** [INF<sup>+</sup>14, PVB13, CA11]. **Parallelizing** [WAT15]. **parameters** [DW13]. **Parametric** [SC08]. **Partial** [EAGEG09, GFBF12, PDH11]. **Partially** [HHSC10, KMK<sup>+</sup>10, HH13]. **Particle** [BG08, CNE<sup>+</sup>15]. **Partition** [BS15]. **Partitioning** [TL11]. **Architecture** [EWL15]. **Decompression** [PP10]. **MARTE** [GdLIG<sup>+</sup>14]. **Software** [HHSC10, HH13, SC11]. **Pentium(R)** [LYS<sup>+</sup>08]. **Perfecto** [HLL08]. **Performance** [CH10, CKG<sup>+</sup>10, EAGEG09, HNG09, HNS<sup>+</sup>10, LP15, MH15, PDH11, SPM<sup>+</sup>10, SDG12, SSC16, TL11, TB10, UNBR14, BC11, GP13, HGLS11, PANBI11]. **Performance-Oriented** [TL11]. **Perl** [LT09]. **Perturb** [GL08]. **PEs** [GRG08]. **PGAS** [AGY<sup>+</sup>11]. **Physical** [INF<sup>+</sup>14, MVGB15, SMOP15]. **Pinch** [DGP10]. **Pipelined** [KAL14, SV09]. **pixel** [Oli12]. **Placement** [FRS<sup>+</sup>15, GSJC13, HHSC10, MVGB15, MSSM10, Ste10, GL08]. **Platform** [KSG11, NNY12]. **Platform-aware** [KSG11]. **Platforms**

[CBR<sup>+</sup>14, GFL<sup>+</sup>15, GKM<sup>+</sup>12, SAD10]. **Point** [HU10, KD10, OBD13, RC10, WL10, WS16, dDELVP13]. **Point-to-Point** [KD10]. **Policy** [SDG12]. **Port** [PVA<sup>+</sup>09]. **Portability** [KGS15]. **Portable** [WS16, ZBR12]. **Ported** [LLO<sup>+</sup>14]. **POWer** [KGS<sup>+</sup>12, CXG<sup>+</sup>12, KBM09, KCC<sup>+</sup>14, KP14, LAL13, MMMT09, SLH<sup>+</sup>10, UNBR14, ZBC<sup>+</sup>09, EA11, LW08, KGS<sup>+</sup>12]. **power-aware** [EA11]. **Power-Efficient** [SLH<sup>+</sup>10]. **POWER-EmulatoR-** [KGS<sup>+</sup>12]. **POWER-MODES** [KGS<sup>+</sup>12]. **Precision** [LGD<sup>+</sup>14, WL10, Oli12]. **Predicting** [MOG<sup>+</sup>13]. **Prediction** [HNG09, HGLS11]. **Preserving** [PVA<sup>+</sup>09]. **Pricing** [JTL09, KLC11]. **Primitives** [HLN<sup>+</sup>10]. **Priority** [BAG15, KVK<sup>+</sup>11]. **Problem** [GB11, GPP08]. **Problems** [KM10]. **Process** [DB15, SB08, LKJ<sup>+</sup>11, SC11]. **Processing** [BHB14, IABV15, Kap16, LP15, MVGB15, SSC16, WAT15, YEC<sup>+</sup>09]. **Processor** [CBFM14, KCC<sup>+</sup>14, MWK<sup>+</sup>12, YEC<sup>+</sup>09, Tak12]. **Processors** [GFBF12, VTN09, IYY<sup>+</sup>11, LJS11]. **Production** [UHU09]. **Productivity** [KGS15]. **Profiling** [EWL15]. **Profiling-Based** [EWL15]. **Program** [PD15]. **Program-Invariant** [PD15]. **Programmability** [GKM<sup>+</sup>12]. **Programmable** [AC14, CAPA<sup>+</sup>09, GS10, OWMZ11, SCC10]. **Programming** [MWK<sup>+</sup>12, SPM<sup>+</sup>10, AGY<sup>+</sup>11]. **Protected** [BDGH15, SG15]. **Protein** [JLB<sup>+</sup>08]. **ProtoFlex** [CPN<sup>+</sup>09]. **PUFs** [MKP09]. **Pulses** [PEM<sup>+</sup>09]. **Purpose** [GFBF12, GPP08, LGD<sup>+</sup>14]. **Purposes** [BHI15].

**Quasi** [TB10]. **Quasi-Monte** [TB10]. **Queue** [BAG15]. **Quipu** [MOG<sup>+</sup>13].

**R** [PP10]. **R3TOS** [IBH<sup>+</sup>15]. **Radiations** [SGM09]. **Radio** [PEM<sup>+</sup>09]. **Rail** [HF14]. **Random** [LOM10, RVHP16, SBC10, TL08, Tho15]. **Randomized** [DL09]. **RankBoost** [XCG<sup>+</sup>09]. **Rapid** [HNG09, RGGW10]. **RAT** [HNG09]. **Rate** [IABV15]. **RAW** [GC13, RVHP16]. **RC** [HNG09]. **Real** [ABCC09, BHB14, GNM<sup>+</sup>15, HHSC10, INF<sup>+</sup>14, IBH<sup>+</sup>15]. **Real-Time** [ABCC09, BHB14, HHSC10, INF<sup>+</sup>14, IBH<sup>+</sup>15]. **Recipes** [DGP10]. **Recoding** [ZCL15]. **Recognition** [DDH<sup>+</sup>11]. **reconfigurability** [SC11]. **Reconfigurable** [ASGY12, AV13, ATJZ16, BBND10, Bec14, BHI15, BHB14, CBC<sup>+</sup>12, CNE<sup>+</sup>15, CH10, CBR<sup>+</sup>14, CKG<sup>+</sup>10, DC16, DGP<sup>+</sup>15, DSB09, DDB<sup>+</sup>10, EAGEG09, FKS<sup>+</sup>12, GFL<sup>+</sup>15, GKM<sup>+</sup>12, GC13, GdLG<sup>+</sup>14, HCOB13, HHSC10, HNS<sup>+</sup>10, HLN<sup>+</sup>10, IZO<sup>+</sup>10, IBH<sup>+</sup>15, JCG<sup>+</sup>12, JTL09, KMK<sup>+</sup>10, KCC<sup>+</sup>14, LYS<sup>+</sup>08, MH15, MKP09, MWK<sup>+</sup>12, MSSM10, NNY12, NBS13, NJLW14, Oli12, PP10, PD15, PFC15, RGGW10, RUC11, SPM<sup>+</sup>10, SJT09, SAD10, TL11, THK12, TL08, UHU09, VL11, VTN09, VG14, WL10, WMG<sup>+</sup>10, dDELVP13, AGY<sup>+</sup>11, BG08, GDHG11, HLL08, HH13, IYY<sup>+</sup>11, KSG11, ZH12]. **Reconfiguration** [DS15, EAGEG09, GFBF12, HNS<sup>+</sup>10, JSC14, KD10, LCS14, LZF<sup>+</sup>10, NW11, NCJ<sup>+</sup>15, PPR<sup>+</sup>10, RLY<sup>+</sup>15, VMV15, ZBC<sup>+</sup>09, NSS<sup>+</sup>11, PDH11]. **Reconstruction** [TZWZ15]. **ReCoSoC** [Hüb12]. **ReCoSoC'12** [VG14].

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